### Physics First Study Guide

#### Equations:

Wave speed, frequency and wavelength

v = velocity or speed

f = frequency (or pitch if sound)

λ. = wavelength.

$$v=f\,\lambda$$

$$f = \frac{\nu}{\lambda}$$

$$\lambda = \frac{\pi}{f}$$

Standing Waves

On a string: 
$$f = \frac{nv}{2t}$$

where n=1 is the fundamental, n=2 second harmonic, n = 3 third harmonic...

L = length of string

v = speed of wave on that string

In tube open at both ends:  $f = \frac{nv}{2L}$ 

where n=1 is the fundamental, n=2 second harmonic, n = 3 third harmonic...

L = length of pipe

v = speed of sound = 345 m/s

In tube open at only one end:  $f = \frac{n\nu}{4L}$ 

where n=1 is the fundamental, n=3 second harmonic, n = 5 third harmonic...

L - length of pipe

v = speed of sound = 345 m/s

Misc.:

The speed of sound is v = 345 m/s. The speed of light is  $v = 3 \times 10^8$  m/s = 300,000,000 m/s.

kHz = 1,000 Hz MHz = 1,000,000 Hz

Chapters in Book:

Chapter 25 Vibrations and Waves

Chapter 26 Sound Chapter 27 Light

# **Physics Sudy Guide Answers**

**Rob Ritchie** 

#### **Physics Sudy Guide Answers:**

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